vicinity, causing great damage. The hail-stones were as large frequent; in one instance a barn eight hundred yards or more from the station as walnuts and fell for nearly half an hour. The various crops received a heavy discharge of lightning that killed two horses in the stables. and fruit were much injured, and hundreds of panes of glass were broken.

a destructive storm occurred in this vicinity. Trees were a large part of the city and caused much damage. The rainfall uprooted, and the heavy rainfall caused much injury to the roads and growing crops. Considerable damage was done by lightning.

Wilkesbarre, Pa.: a severe storm of rain and hail prevailed | hens' eggs and caused great damage to crops. here during the afternoon of the 19th, causing considerable damage to crops in the surrounding country. In the northern part of Wilkesbarre a large frame building was destroyed.

Reading, Pa.: a severe storm passed over this section during other property, the night of the 19-20th. The heavy rains caused the flooding Petersburg, play.

Booneville, Cooper Co., Mo.: the heaviest rain storm of the heavy fall of hail. season occurred here at about 10 p.m. of the 20th, the rainfall of the county was blown down, and wheat was also damaged. done by the very heavy rainfall and high wind.

Cleveland, Ohio: the steam barge "P. H. Walters" was Wilmington, Del., 22d: two storms of unusual violence oc-

sunk off Black River, Ohio, during a severe squall on the evening of the 20th.

of this place, causing considerable damage to the cotton and phone wires. corn crops. The path of the hail belt was about one mile wide, Philadelph within which the cotton was stripped of its leaves and corn morning and afternoon of the 22d and continued during the badly torn.

Pond" section of this county; houses, fences, and trees were remarkably heavy for this station. blown down.

which occurred at that place:

At 4.30 p. m. on the 20th a dark, ominous looking cloud was seen forming high up in the western sky, and was accompanied by a loud roaring noise, which resembled that made by an approaching railroad train. It apparently remained stationary for about forty minutes and then drifted slowly eastward, at which time began a tremendous downpour of rain and some hail. The bulk of the storm passed just to the south of this point, and to all appearances the wind came in a direction downward and outward from the sides of the cloud, with a force so great as to destroy much fencing and timber, and also to over-local minutes it blew at the rate of one fundamental minutes and the different minutes it blew at the rate of one fundamental minutes it blew at the rate of one fundamental minutes it blew at the rate of one fundamental minutes it blew at the rate of one fundamental minutes it betw at the rate of one fundamental minutes it betw at the rate of one fundamental minutes it the rate of one fundamental minutes and the state of one fundamental minutes and some later and some state of one fundamental min with a force so great as to destroy much fencing and timber, and also to overturn wind-engine towers and buildings along its track. At this station the wind blew a heavy gale from the south and southeast, while two miles to the south, on the opposite side of storm, the current was so violent from the north and west as to completely demolish a large barn. The lightning was sharp and spouts June 26th, in N. 33° 00′, W. 77° 50′, at noon.

New Orleans, La.: on the 20th thunder-storms prevailed from ere broken.

2.20 to 6.15 p. m., and from 8.10 to 9 p. m. The rainfall,
Easton, Pa.: during the evening (about 10 p. m.) of the 19th amounting to 5.00 inches, which accompanied this storm flooded was the heaviest that has occurred since April 7, 1883.

Lenoir, Caldwell Co., N. C.: a destructive hail storm occurred in this vicinity on the 21st; the hail-stones were as large as

Rock Hall, Kent Co., Md.: a storm of unusual severity, accompanied by hail, occurred in this vicinity during the night of the 21st-22d, causing much damage to orchards, crops, and

Petersburg, Dinwiddie Co., Va.: a storm, reported to have of many cellars, and in the surrounding country the grain been the most severe experienced for many years, passed fields were levelled and fruit was severely cut by hail. The through Amelia and Nottoway counties on the 22d. Dwellings storm was accompanied by a very remarkable electrical dis- were unroofed, and out-buildings, fences, and trees were blown down. In Dinwiddie county crops were severely injured by a

Salisbury, Wicomico Co., Md.: a violent storm occurred in amounting to over three inches. Growing corn in many parts this vicinity at about 9 p. m. on the 22d. Much damage was

curred here during the early morning of the 22d, the more violent coming from the southwest. Many trees, chimneys, Raleigh, N. C.: during the prevalence of a severe thunder- and light structures were blown down, and several buildings storm on the 20th there was a fall of hall about four miles north were unroofed. Great damage was done to telegraph and tele-

Philadelphia, Pa.: thunder-storms occurred during the early night of the 22d-23d. Rain fell at intervals during this time, Henderson, Vance Co., N. C.: during the night of the but at 7.45 p. m. a steady downpour set in and continued dur-20th-21st quite a severe storm passed through the "Bear ing the night, the rainfall amounting to 3.63 inches, which is

Valentine, Nebr.: on the 26th a thunder-storm began at 6.45 Mr. L. J. Heatwole, voluntary observer at Dale Enterprise, p. m. and continued until 8.45 p. m.; hail fell for five minutes, Rockingham Co., Va., furnishes the following report of a storm beginning at 7 p. m. The wind attained a very high velocity; for two and one-half minutes it blew at the rate of one hun-

128', at noon.

First Officer James Ryley, of the s. s. "Lampasas," Captain

COTTON REGION REPORTS.

In the following table are given the means of the maximum and minimum temperatures, and the average rainfall for the cotton-belt districts during the month. For the purpose of comparison the means for the five preceding years are also given.

Generally the rainfall is deficient in all districts, the departures ranging from 0.58 inch in the district of Vicksburg to 3.13 inches in the district of Charleston, while they exceed two inches in the districts of Atlanta, Little Rock, Memphis, Montgomery, and Savannah; in the district of Galveston a small excess occurs.

The mean maximum temperatures are above the average in all districts, except in the districts of Galveston and Little Rock, which show slight departures below the average. The mean minimum temperatures are slightly below the average in all districts, except for the district of Galveston, where a small excess occurs.

A comparison of the means of the maximum and minimum temperatures shows that the absolute range of temperature during June, 1887, in the southern sections of the country was greater than the average of previous years.

Temperature and rainfall data for the cotton districts, June.

Districts.	Rainfall.			Temperature,							
	Average for June of five preceding years.	Average for June, 1887.	Departures.	Maximum,			Minimum.				
				Mean for June of five pre- ceding years.	Mean for June, 1887.	Departures.	Mean for June of five pre- ceding years.	Mean for June, 1887.	Departures.	Extremes for June, 1887.	
										Max.	Min.
	Inch.	Inch.	Inch.		0	٥			0	٥	۰
New Orleans	5.90	5.27	— o.63	89.7	91.0	1 ::5	70.5	68.6 68.2	- 1.9 - 1.4	101	57 48
Savannah Charleston		3.41	$\frac{-2.37}{-3.13}$	88.3	90.2	T 1.9	67.4	66.0	- 1.4	105	44
Atlanta	5.61	3.56	- 2,05	87.0	89.1	+ 2.1	66.0	65.2	- o.8	104	42
Wilmington	5.59	3.98	- 1,61	87.2	88.4	+ 1.2	65.2	64.4	o.8	109	42
Memphie	4.90	2.54	- 2.36	87.4	88.9	十 1.5	66.5	63.7	- 2.8	102	44 58
Galveston	2.58*	3.27	+ 0.69	92.1*	91.4	- 0.7	70.2*	70.3	+ 0.1	103	52
Vicksburg		3.61	- 0.58	89.9	91.3	1:4	67.5	69.0 66.9	- 0.2 - 0.6	101	52
Montgomery Augusta	5.25 5.61	3.85	-2.41 -1.76	88.6	91.0	¥ 2.4	60.9	66.4	- 0.5	105	47
Little Rock	3.37	1,26	- 2,11	89.1	88.6	- 0.5	65.9	64.9	- 1.0	100	43
Mobile	4.78	3.79	- 0,99	91.0	91.6	+ 0.6	69.7	65.4	- 4.3	105	43

*Average for June of four preceding years.